FIG. 1A

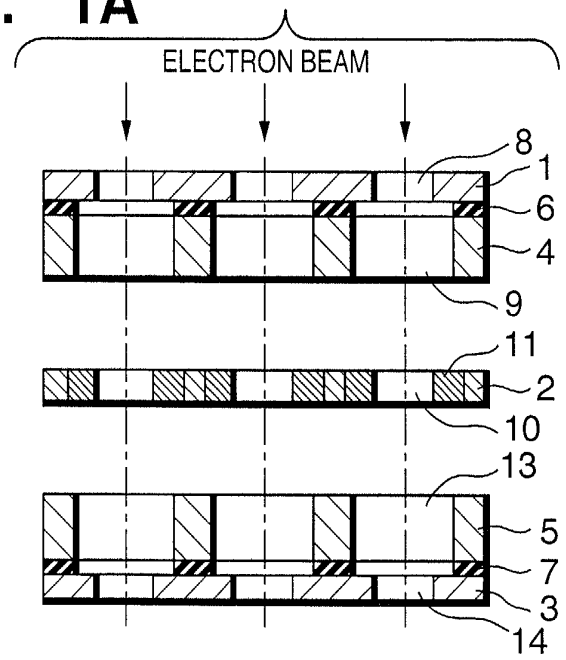

FIG. 1B

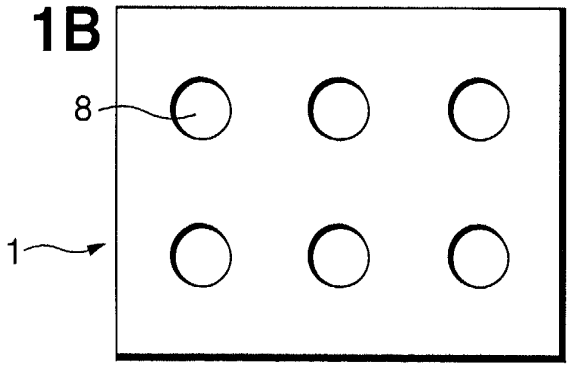

FIG. 1C

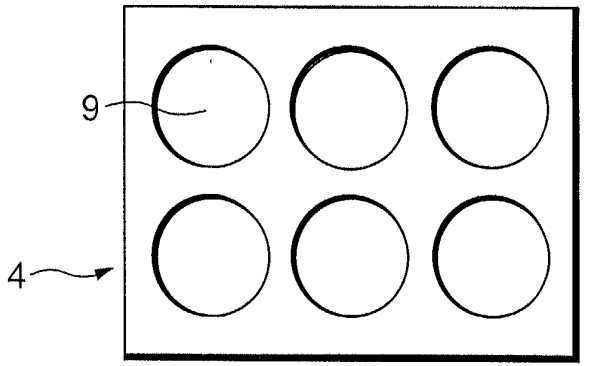

FIG. 1D

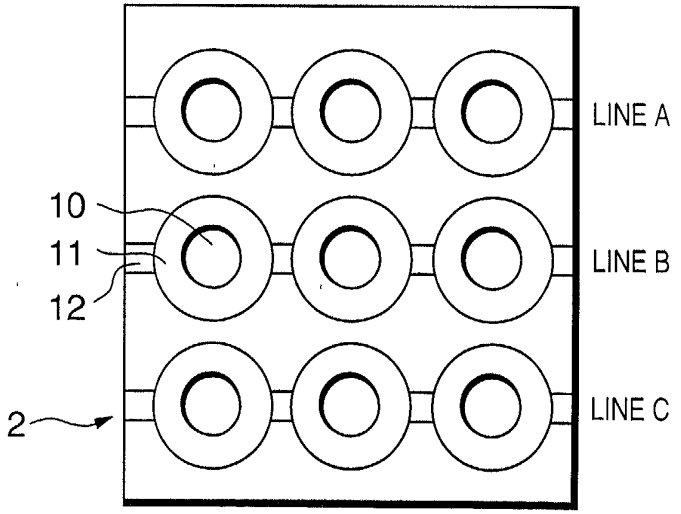

FIG. 2A

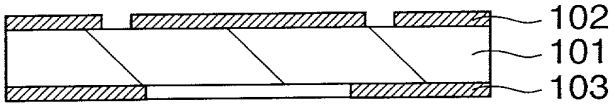

FIG. 2B

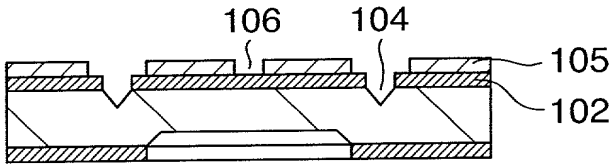

FIG. 2C

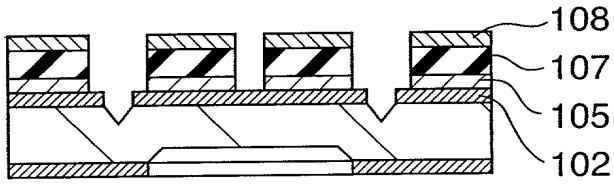

FIG. 2D

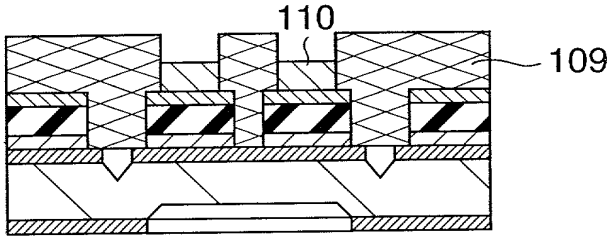

FIG. 2E

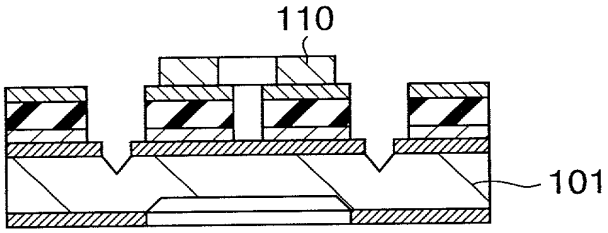

FIG. 2F

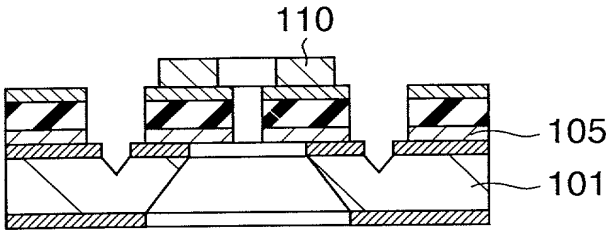

FIG. 3A

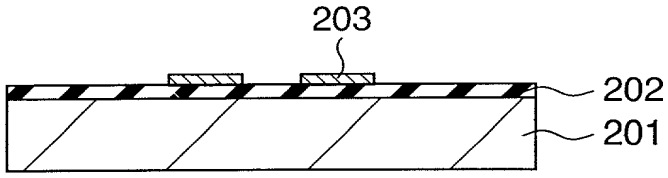

FIG. 3B

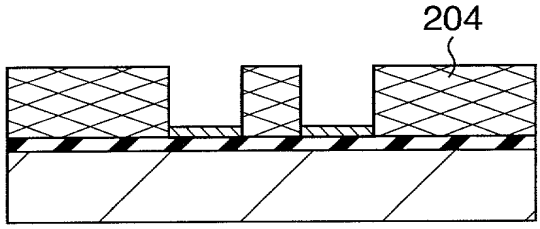

FIG. 3C

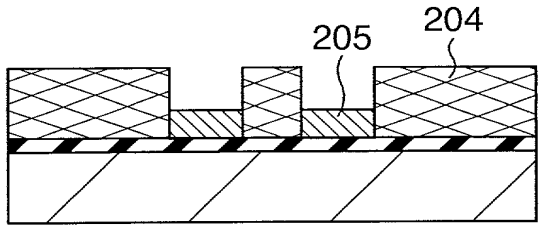

FIG. 3D

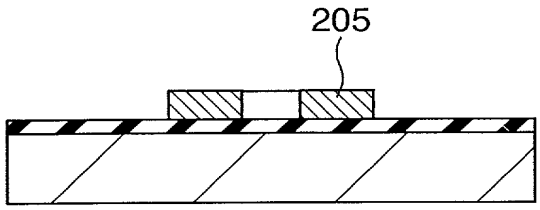

FIG. 4A

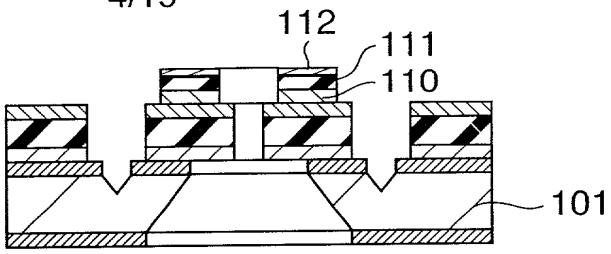

FIG. 4B

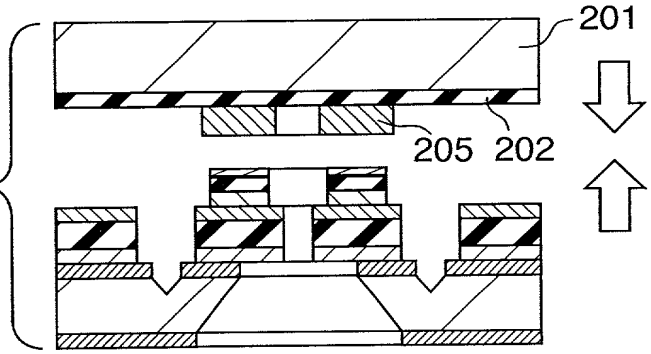

FIG. 4C

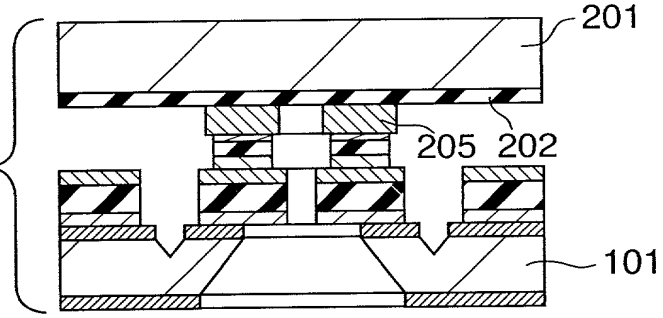

FIG. 4D

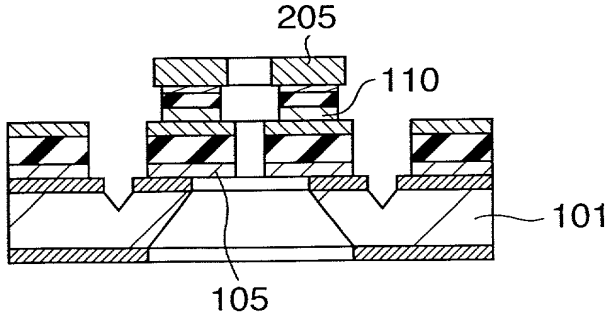

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FIG. 5

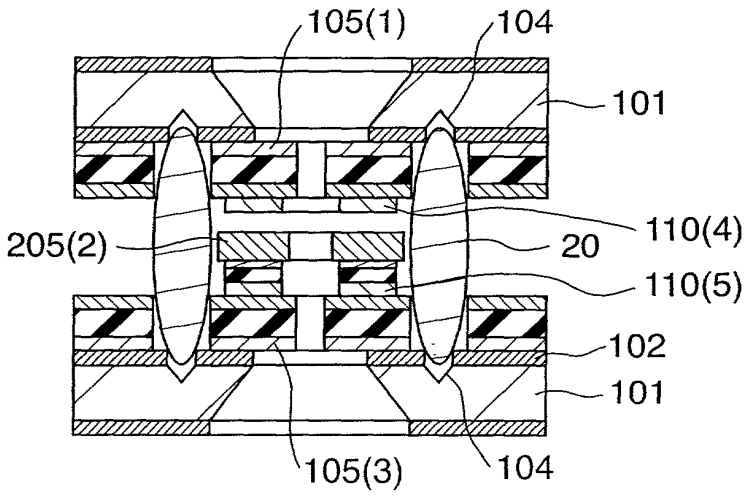

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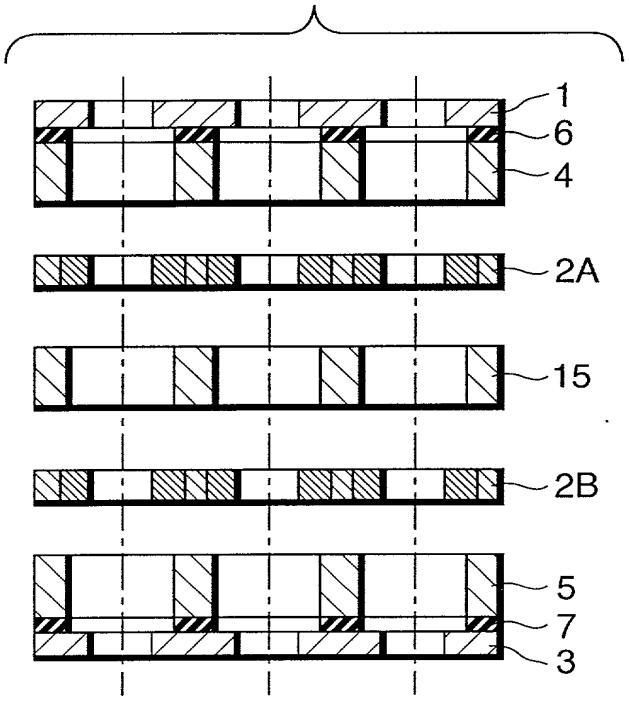
FIG. 6



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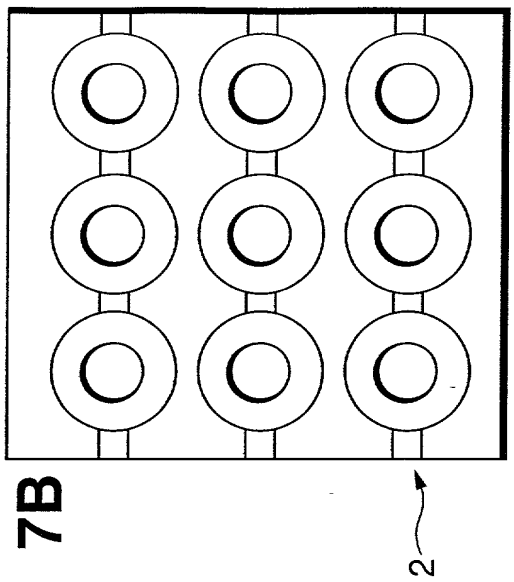

FIG. 7B

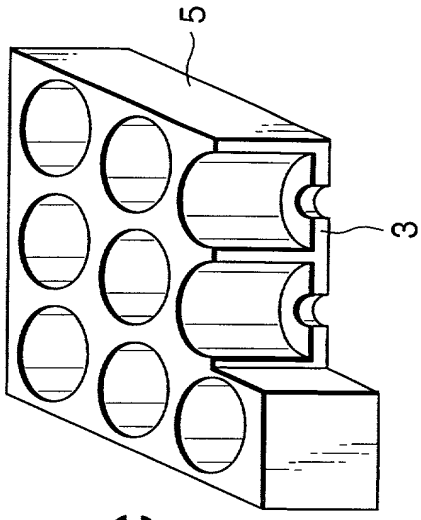

FIG. 7C

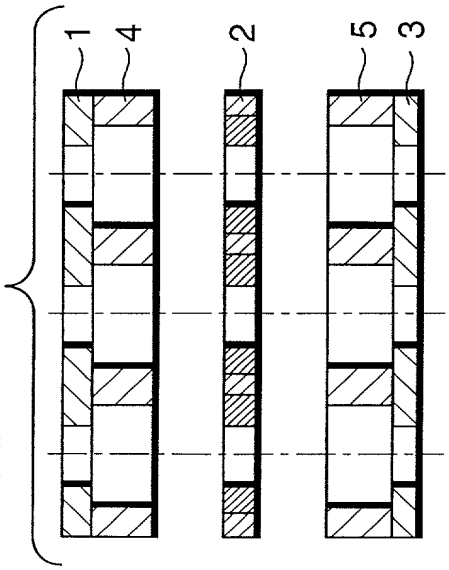

FIG. 7A

FIG. 8A

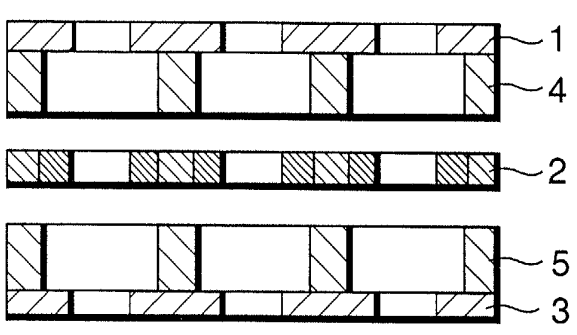

FIG. 8B

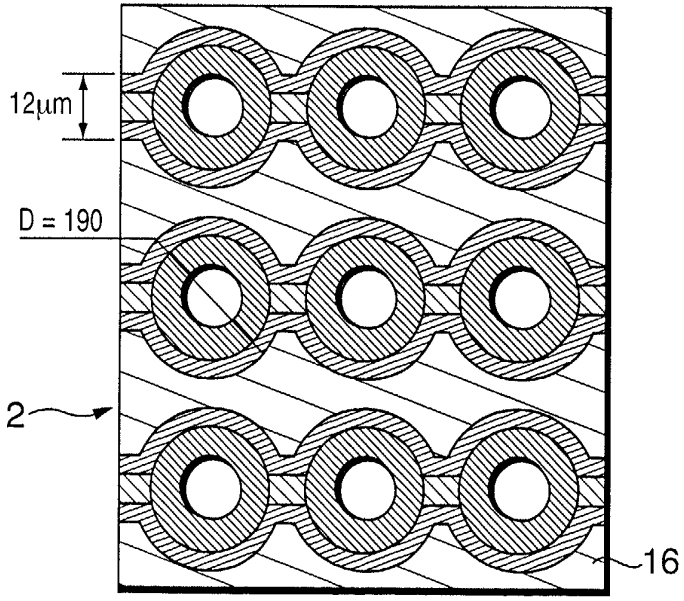

FIG. 8C

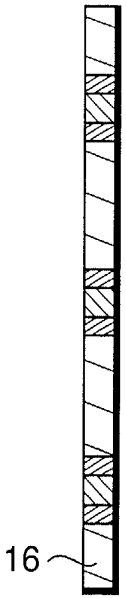

FIG. 8D

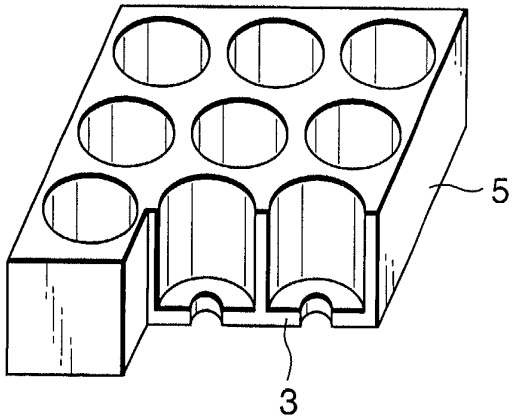

FIG. 9B

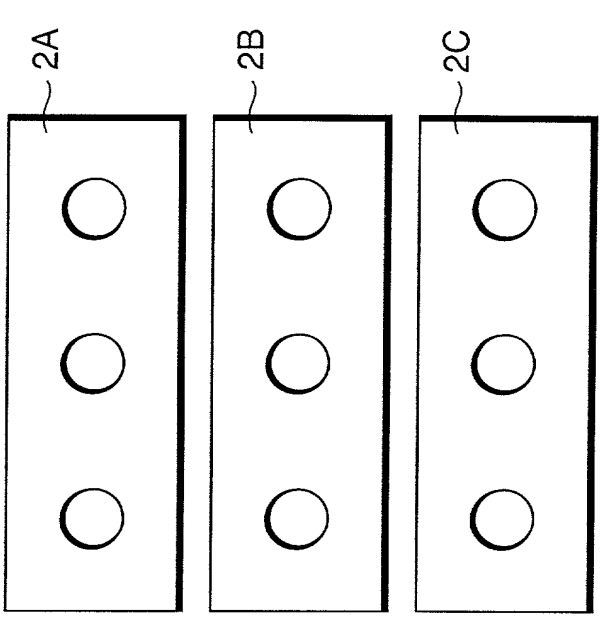

FIG. 9A

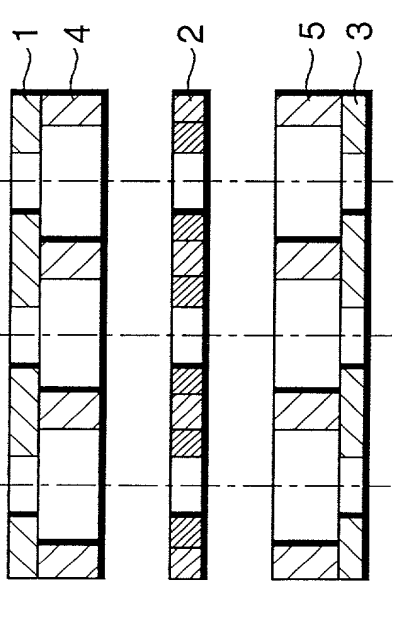

FIG. 9C

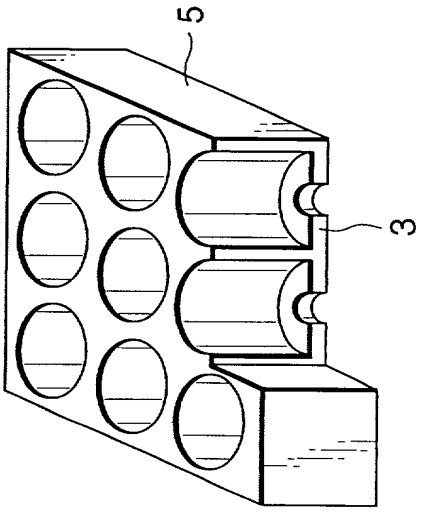

FIG. 10

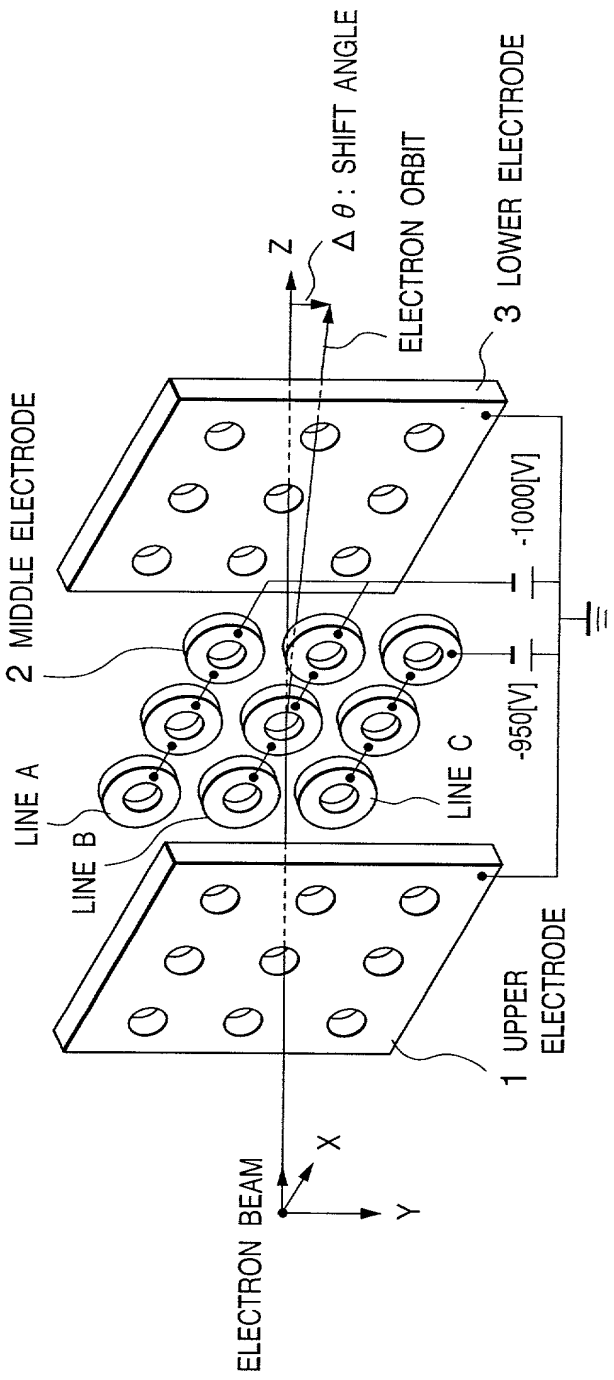
Z
Δθ: SHIFT ANGLE
ELECTRON ORBIT
3 LOWER ELECTRODE
2 MIDDLE ELECTRODE
-1000[V]
-950[V]
LINE A
LINE B
LINE C
1 UPPER ELECTRODE
ELECTRON BEAM
X
Y

FIG. 11A

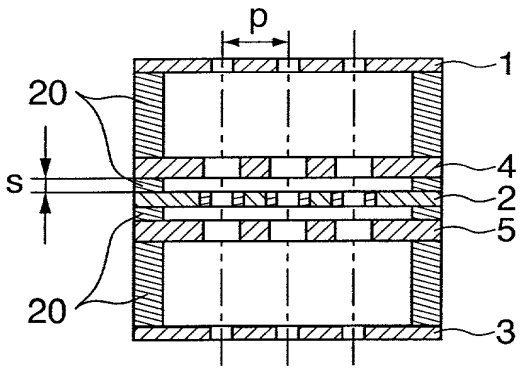

FIG. 11B

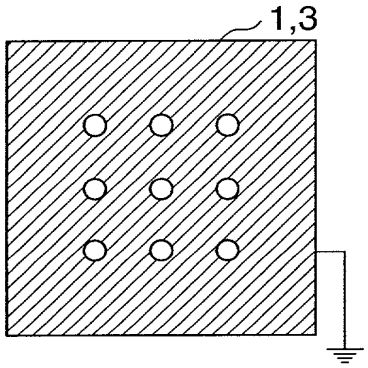

FIG. 11C

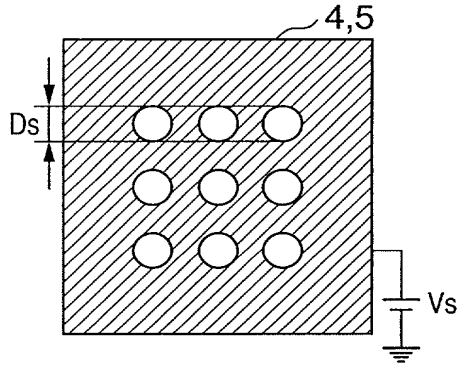

FIG. 11D

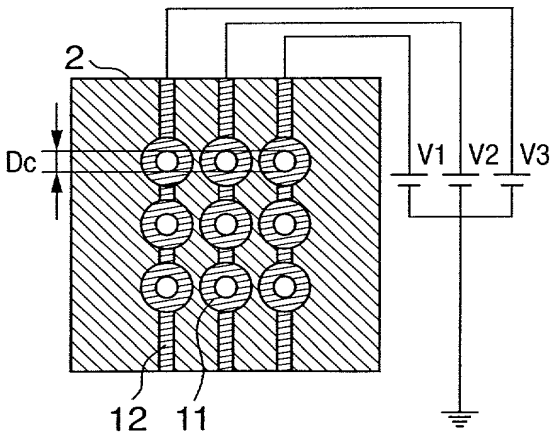

FIG. 11E

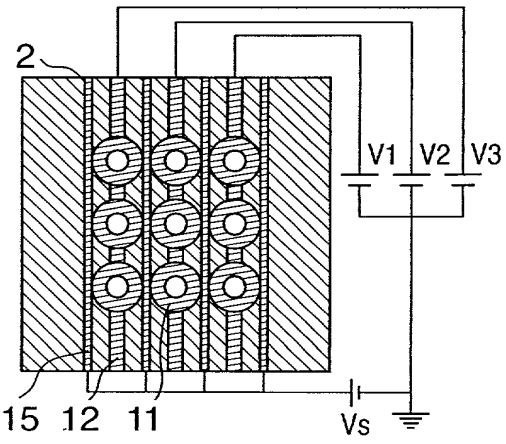

FIG. 12A

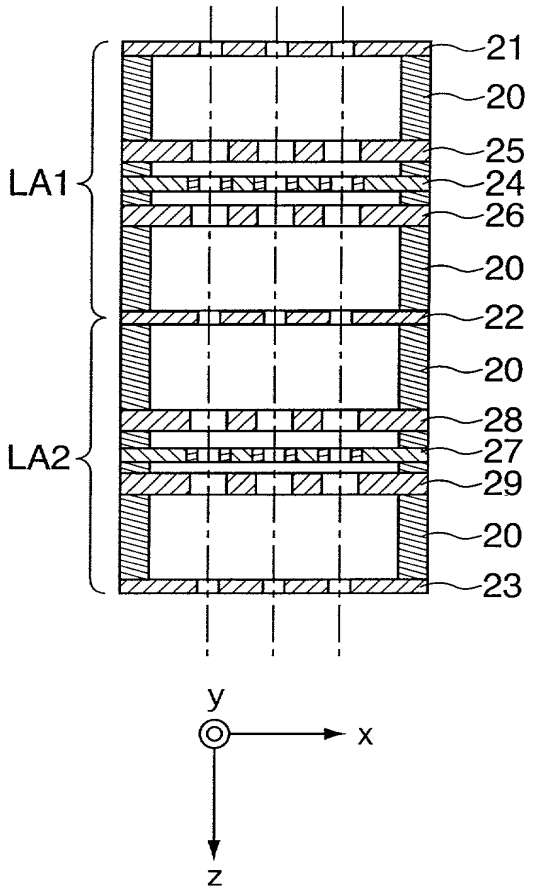

FIG. 12B

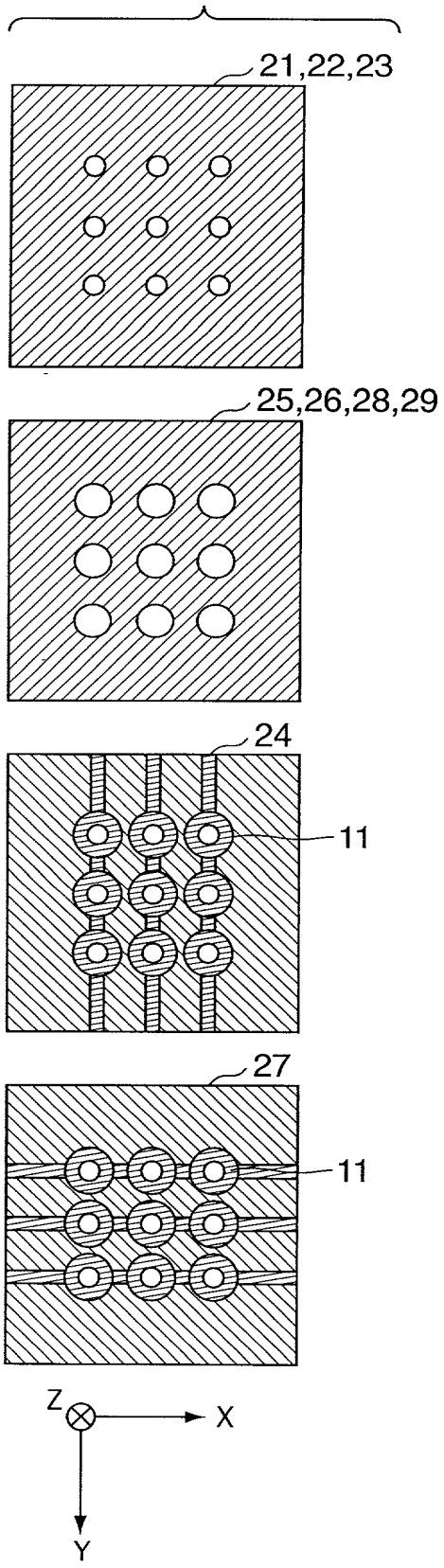

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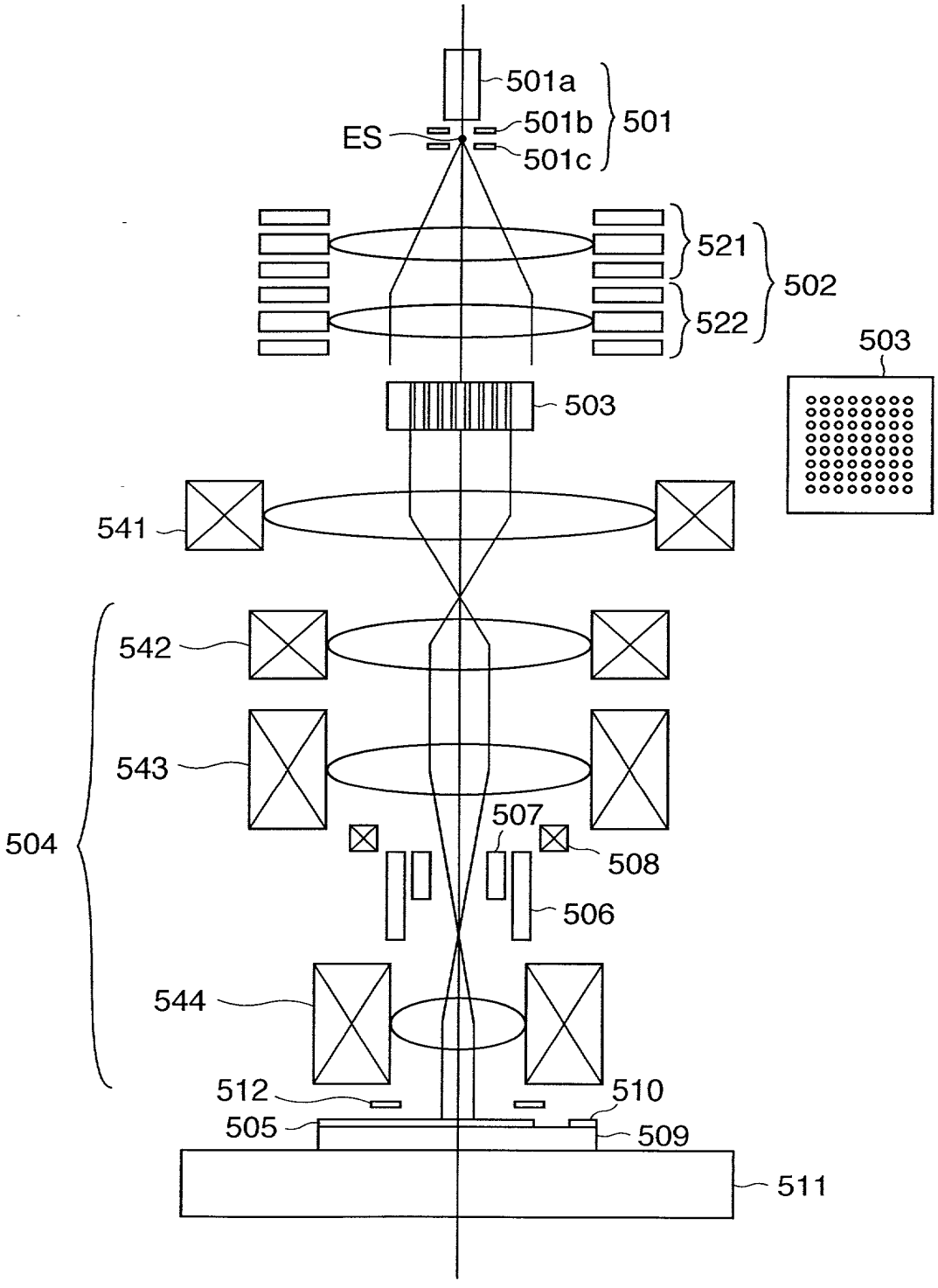
FIG. 13


501a
501b
501
ES
501c
521
502
522
503
503
541
542
543
504
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508
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544
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505
509
511

FIG. 14A

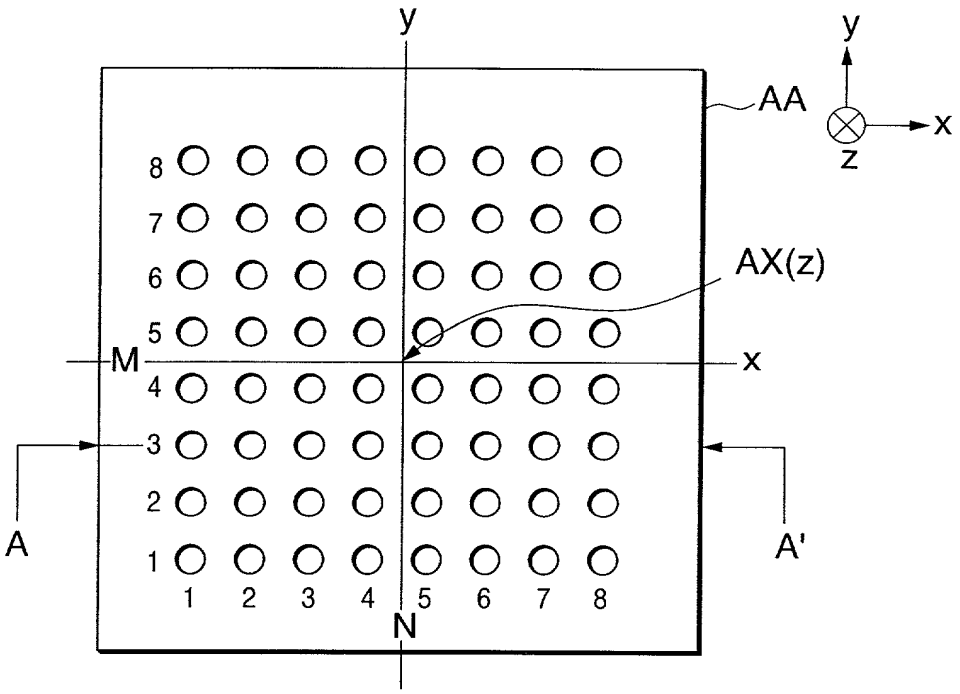


FIG. 14B

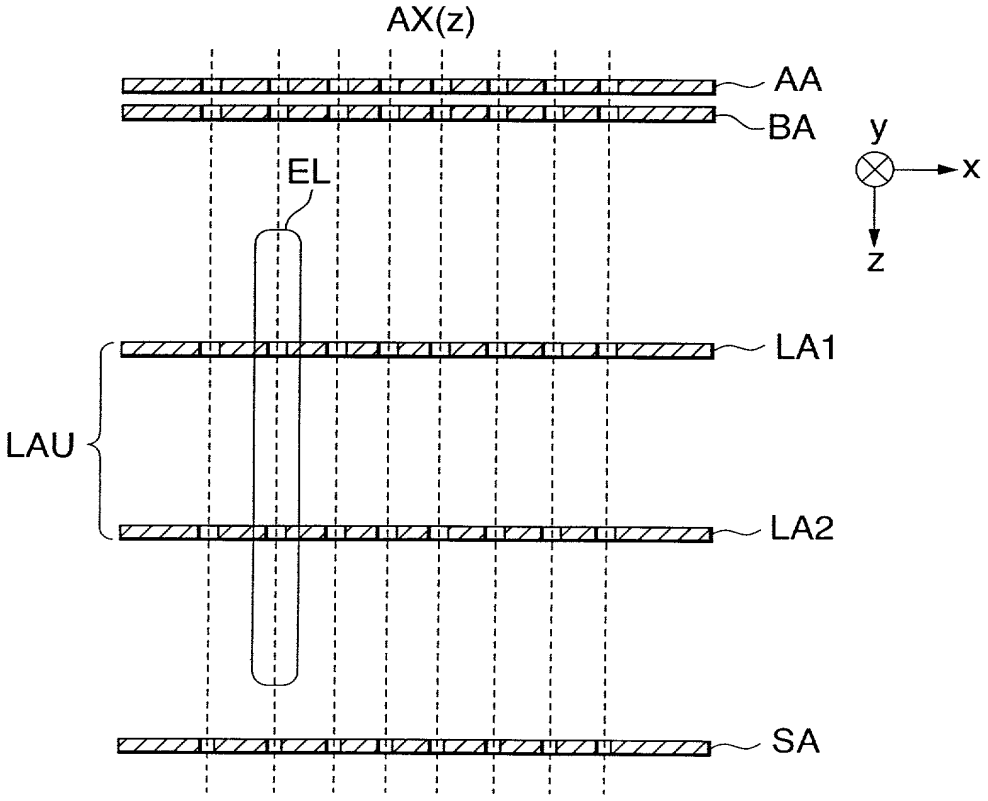
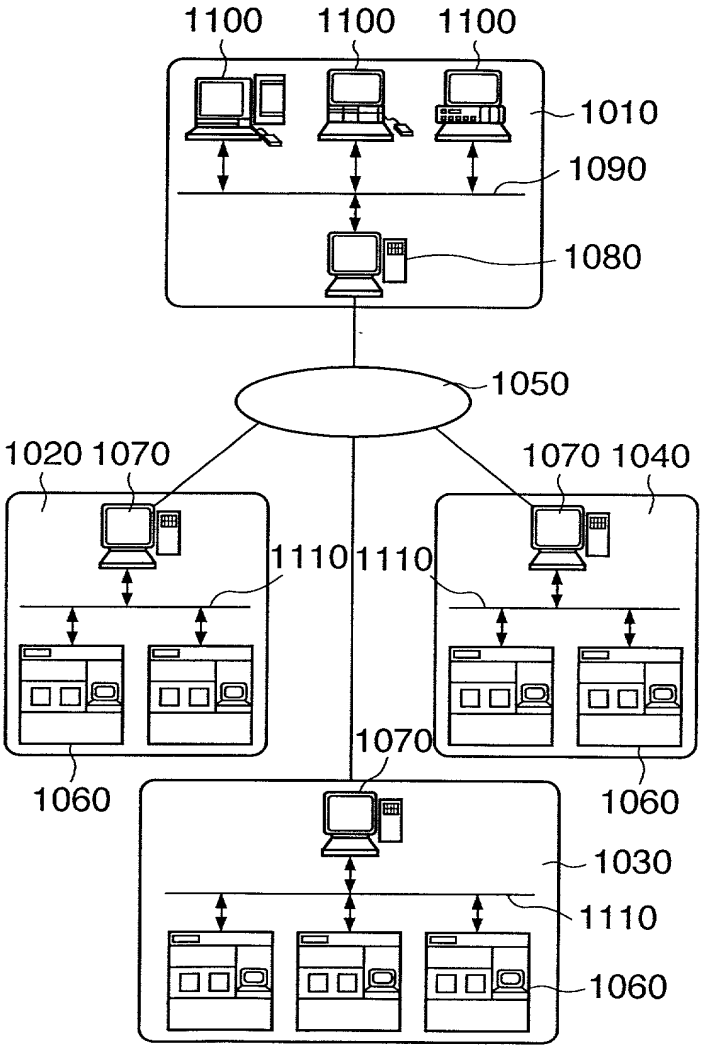


FIG. 15


1100
1100
1100
1010
1090
1080
1050
1020
1070
1070
1040
1110
1110
1070
1060
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1030
1110
1060

FIG. 16

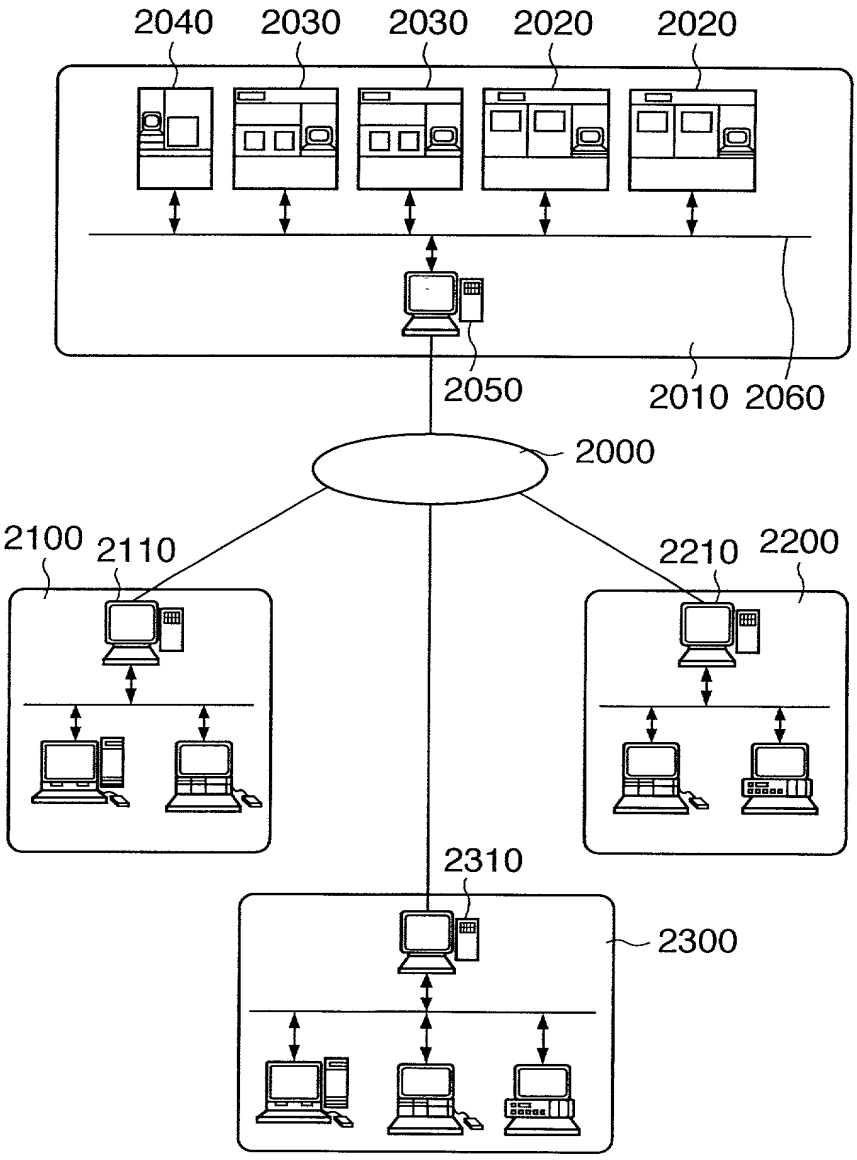

2040
2030
2030
2020
2020
2050
2010
2060
2000
2100
2110
2210
2200
2310
2300

FIG. 17

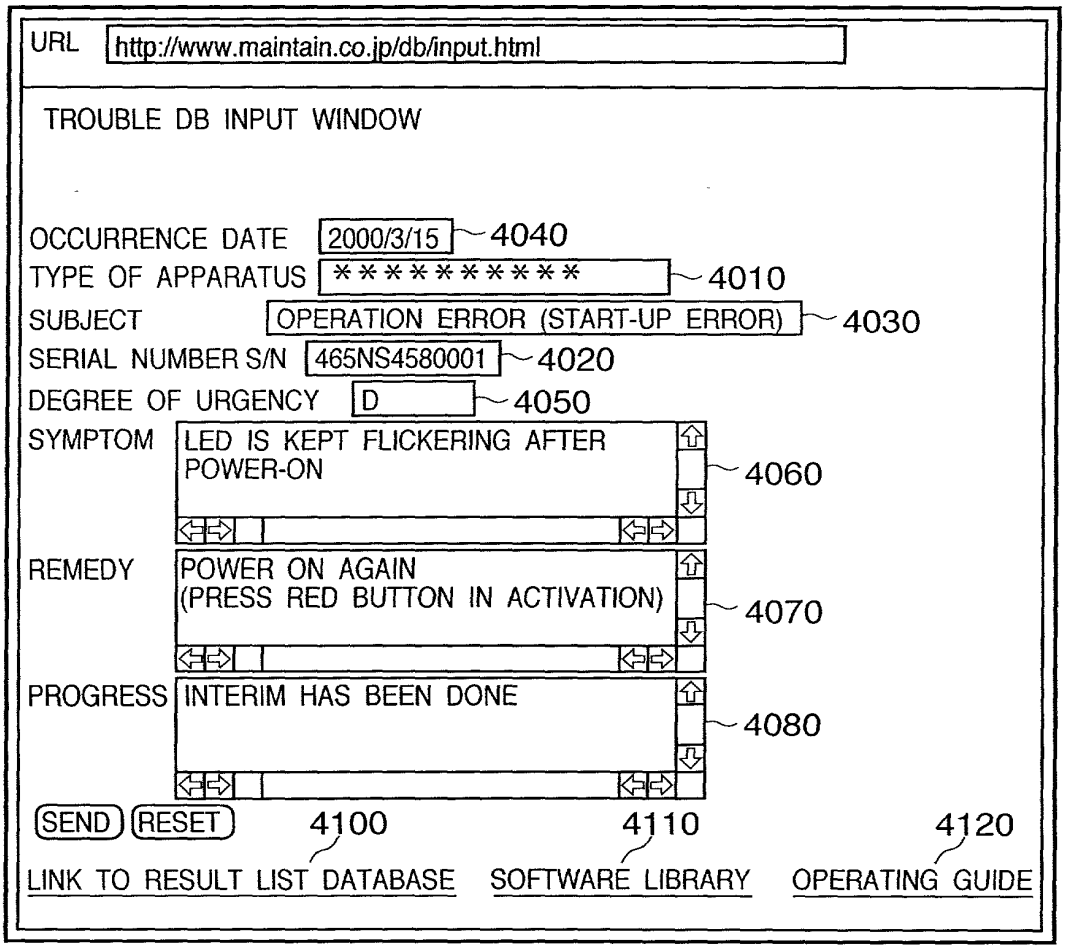

URL
http://www.maintain.co.jp/db/input.html
TROUBLE DB INPUT WINDOW
OCCURRENCE DATE
2000/3/15
4040
TYPE OF APPARATUS
****
4010
SUBJECT
OPERATION ERROR (START-UP ERROR)
4030
SERIAL NUMBER S/N
465NS4580001
4020
DEGREE OF URGENCY
D
4050
SYMPTOM
LED IS KEPT FLICKERING AFTER POWER-ON
4060
REMEDY
POWER ON AGAIN (PRESS RED BUTTON IN ACTIVATION)
4070
PROGRESS
INTERIM HAS BEEN DONE
4080
SEND
RESET
4100
4110
4120
LINK TO RESULT LIST DATABASE
SOFTWARE LIBRARY
OPERATING GUIDE

FIG. 18

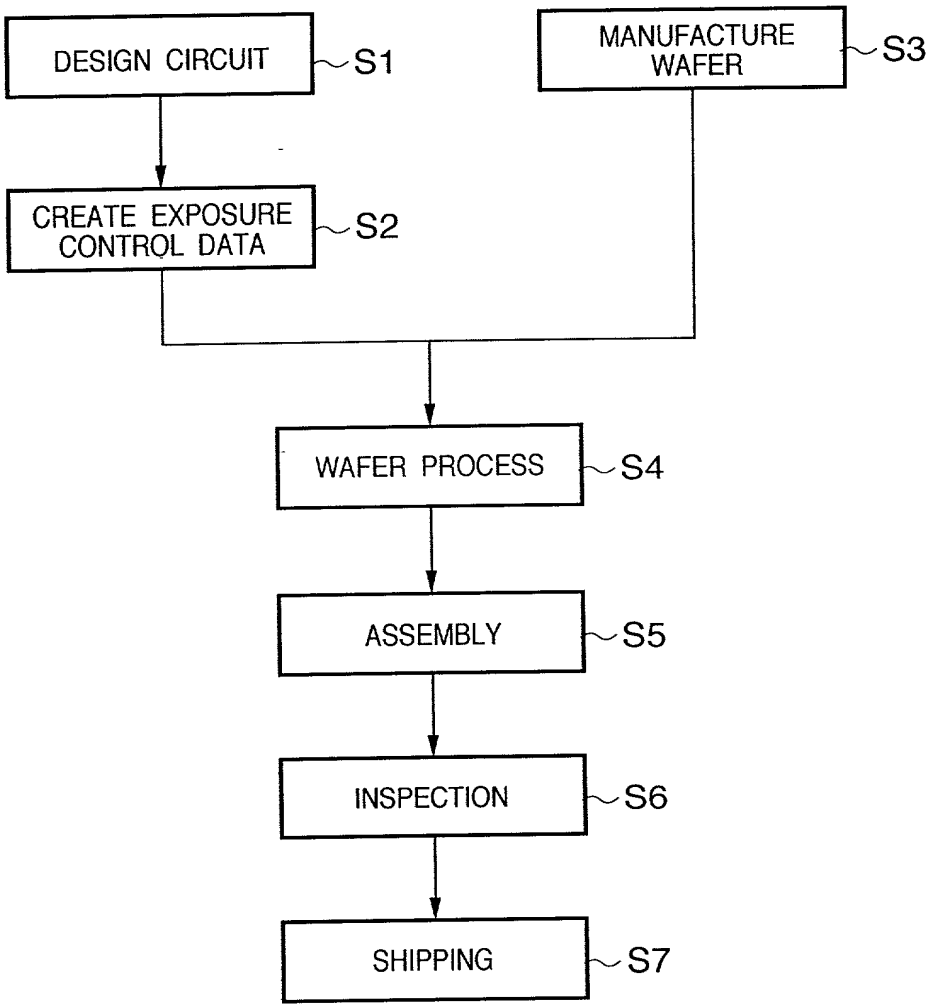
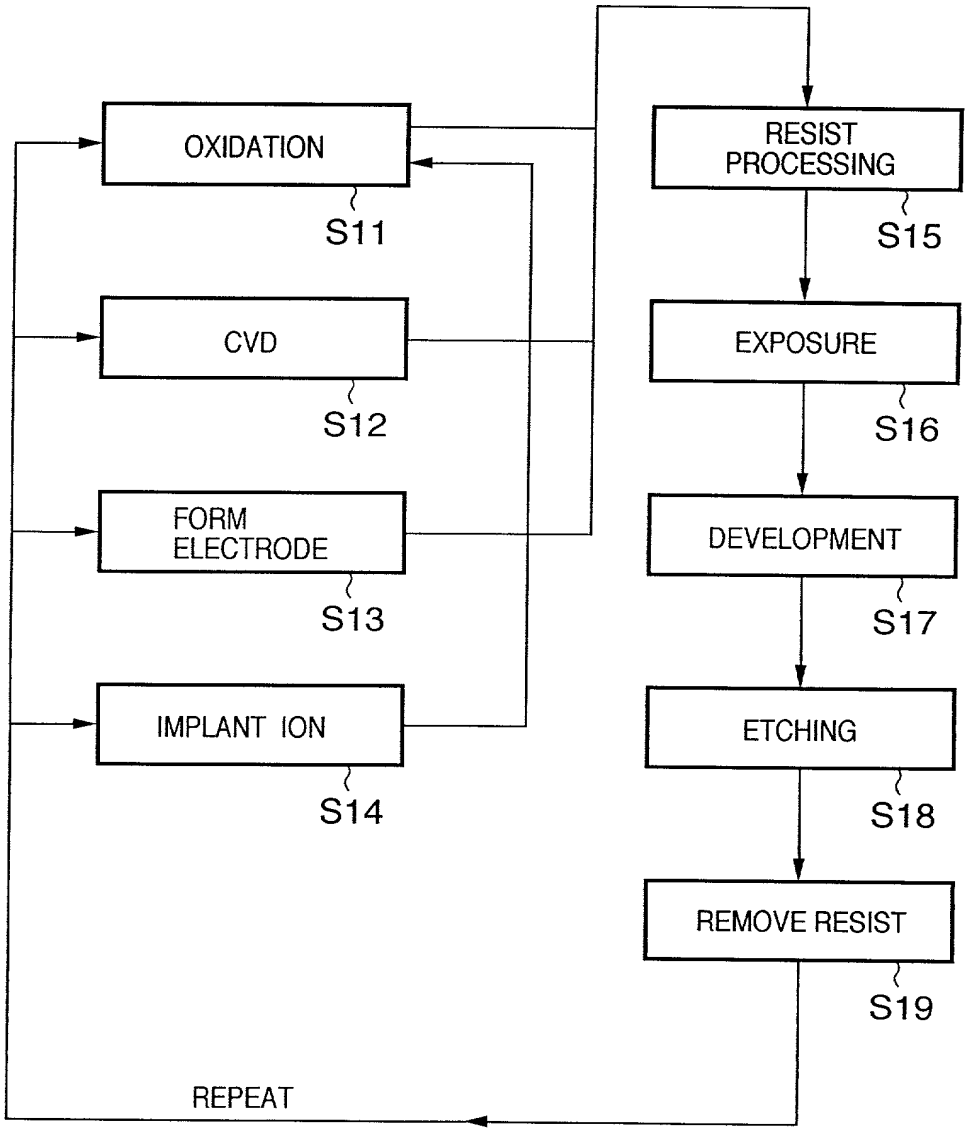

DESIGN CIRCUIT
S1
MANUFACTURE WAFER
S3
CREATE EXPOSURE CONTROL DATA
S2
WAFER PROCESS
S4
ASSEMBLY
S5
INSPECTION
S6
SHIPPING
S7

FIG. 19


OXIDATION
S11
CVD
S12
FORM ELECTRODE
S13
IMPLANT ION
S14
RESIST PROCESSING
S15
EXPOSURE
S16
DEVELOPMENT
S17
ETCHING
S18
REMOVE RESIST
S19
REPEAT